



IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Arthur G. Taveras, et al.

Serial No.: 10/680,393

Filed: 10/07/2003

For: THIADIAZOLEDIOXIDES AND
THIADIAZOLEOXIDES AS CXC-
AND CC- CHEMOKINE RECEPTOR
LIGANDS

Examiner: To Be Assigned

Group Art Unit: 1614

Atty. Docket No.: OC01643K1

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Mail Stop: Amendment

Sir:

(a) Pursuant to Rule 56, it is requested that the documents listed on the accompanying PTO-1449 Form be considered and made of record in the above-identified patent application. Copy(ies) of these references are attached were filed in related application U.S. Serial No(s) _____ filed _____, respectively.

(b) No fee is believed due because:

- This Information Disclosure Statement is being filed within three (3) months of the filing date of the application.
- This Information Disclosure Statement is being concurrently filed with the above-identified application.
- This Information Disclosure Statement is being concurrently filed with a Request for Continued Examination (RCE).
- This Information Disclosure Statement is being filed prior to the mailing of a first Office Action on the merits.

(c) This Information Disclosure Statement is being filed before the mailing date of any final action, notice of allowance or an action that otherwise closes prosecution; and

- Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; or

- The Commissioner is hereby authorized to charge the requisite fee listed on the attached Fee Transmittal Sheet.
- (d) This Information Disclosure Statement is being filed on or before the payment of the issue fee; and
 - Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
 - No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and
 - The Commissioner is hereby authorized to charge the requisite fee listed on the attached Fee Transmittal Sheet.
- The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 19-0365, Patent Case No. OC01643K1. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,
SCHERING-PLough CORPORATION

Dated: September 24, 2004
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>					ATTY. DOCKET NO.: OC01643K1	SERIAL NO.: 10/680,393
					APPLICANT: Arthur G. Taveras, et al.	
					FILING DATE: 10/07/2003	GROUP: To Be Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AA	6,420,396 B1	07/16/02	Albers, et al.			
AB	5,206,252	04/27/93	Butera, et al.			
AC	5,354,763	10/11/94	Butera, et al.			
AD	5,397,790	03/14/95	Butera, et al.			
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
						YES
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AQ	EP 0 099 121 A2	01/25/84	EP			
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AS	EP 0 275 997 A	07/27/88	EP			
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AV	WO 94/29277	12/22/94	WIPO			
AW	WO 95/14005	05/26/95	WIPO			
AX	WO 96/14300	05/17/96	WIPO			
AY	WO 96/15103	05/23/96	WIPO			
AZ	WO 98/33763	08/06/98	WIPO			
BA	WO 00/20378	04/13/00	WIPO			
BB	WO 00/21927 A	04/20/00	WIPO			
BC	WO 00/35855	06/22/00	WIPO			
BD	WO 00/35864	06/22/00	WIPO			
BE	WO 00/73260 A1	12/07/00	WIPO			
BF	WO 01/29000 A2	04/26/01	WIPO			
BG	WO 01/64208 A1	09/07/01	WIPO			
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BL	WO 02/067919	09/06/02	WIPO			
BM	WO 02/076926 A	10/03/02	WIPO			
BN	WO 02/083624 A1	10/24/02	WIPO			
BO	WO 03/031440 A1	04/17/03	WIPO			
BP	WO 03/057676 A1	07/17/03	WIPO			
BQ	WO 03/080053 A1	10/02/03	WIPO			

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: OC01643K1	SERIAL NO.: 10/680,393
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT: Arthur G. Taveras, et al.			
		FILING DATE: 10/07/2003		GROUP: To Be Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
BR	esp@cenet Document, "1,2,5-Thiadiazole-1-oxides and 1,1-dioxides, process for their preparation and their use as medicaments" (for DE33 09 655 which is attached to said esp document)				
BS	Chemical Abstract 66:18527 for Maahs, Guenther, et al., "Syntheses and derivatives of squaric acid," <i>Angewandte Chemie</i> 78(20):927-31 (1966) (which is attached to said abstract)				
BT	Chemical Abstract 87:134383 for Augustin, Manfred, et al., "Disubstitution in 2,3-dichloromaleimides" <i>Zeitschrift Fuer Chemie</i> 17(6):215-216 (1977) (which is attached to said abstract)				
BU	Chemical Abstract No. 87:151727 for Ehrhardt, Heinz, et al., "Amides and thioamides of squaric acid: syntheses and reactions," <i>Chemische Berichte</i> 110(7):2506-23 (1977) (which is attached to said abstract)				
BV	Chemical Abstract 102:24633 for Stegelmeier, Hartmut, et al., "1,2,5-Thiadiazole-1-oxide and 1,1-dioxides and their use as pharmaceuticals" (for DE3309655 which is attached to said abstract)				
BW	Chemical Abstract 104:129517 for Gruenefeld, Johann, et al., "Reactions of squaric acid with carbodiimides," <i>Archiv der Pharmazie</i> 318(12):1062-70 (1985) (which is attached to said abstract)				
BX	Chemical Abstract No. 122:160745 for Tillack, Annegret, et al., "Assymmetric catalysis. IV. Hydrosilylation of acetophenone with pyrrolidine-2,5-dione modified [Rh(COD)C1]2 catalyst," <i>Journal of Organometallic Chemistry</i> 482:85-91 (1994) (which is attached to said abstract)				
BY	Chemical Abstract No. 125:300482 for Chen, Yizhao, et al., "Reaction of dibutyl oxosquare with aromatic primary amines," <i>Sichuan Daxue Xuebao, Ziran Kexueban</i> 33(2):182-186 (1996) (which is attached to said abstract)				
BZ	Chemical Abstract No. 130:222994 for Chen, Yi-Zhao, et al., "Synthesis of asymmetric aryl-substituted amides of squaric acid and asymmetric isosquarylium amides," <i>Hechen Huaxue</i> 6(4):383-392 (1998) (which is attached to said abstract)				
CA	Butera, John A., et al., "Design and SAR of Novel Potassium Channel Openers Targeted for Urge Urinary Incontinence. 1. N-Cyanoguanidine Bioisosteres Possessing in Vivo Bladder Selectivity," <i>J. Med. Chem.</i> 43:1187-1202 (2000)				
CB	Davis, Peter D., et al., "Inhibitors of protein kinase C 1,2,3-Bisarylmaleimides," <i>J. Med. Chem.</i> 35:177-184 (1992)				
CC	Hanaineh-Abdelnour, Leila, et al., "Some synthetic applications of 2,3-Dichloro-N-phenylmaleimide: A Novel Synthesis of 2-Phenylpyrrolo[3,4-b]quinoxaline-1,3-diones. I," <i>Tetrahedron</i> 55:11859-11870 (1999)				
CD	Hoffman, Jacob M., et al., "Conformational Requirements of Histamine H ₂ -Receptor Inhibitors: Structure-Activity Study of Phenylene Analogues Related to Cimetidine and Tiotidine," <i>Journal of Medicinal Chemistry</i> 26(2):140-44 (1983)				
CE	Karady, Sandor, et al., "1,2,5-Thiadiazole-1-Oxides. I. Synthesis and Reactions of Alkoxy and Alkythio Analogs," <i>Heterocycles</i> 16(9):1561-4 (1981)				
CF	Martinez, Ana, et al., "Synthesis of Nonsymmetrically 3,4-Disubstituted 1,2,5-Thiadiazole Dioxides," <i>Journal of Heterocyclic Chemistry</i> 35(2):297-300 (1998)				
CG	Neuse, Eberhard W., et al., "Poly(squaryl amides)" <i>Polymer</i> 15:339-45 (1974)				
CH	Patent Abstracts of Japan, vol. 018, no. 361 (c-1222), July 7, 1994 and JP 06 092915A, April 5, 1994 abstract				
CI	Schostarez, Heinrich J., et al., "Cyanoguanidine Bioisosteres in Potassium Channel Openers: evaluation of 3,4-Disubstituted-1,2,5-Thiadiazole-1-Oxides," <i>Bioorganic & Medicinal Chemistry Letters</i> 6(18):2187-92 (1996)				
CJ	Wen, Richard Y., et al., "The Chemistry of 1,2,5-Thiadiazoles. II. 3,4-Disubstituted Derivatives of 1,2,5-Thiadiazole 1,1-Dioxide," <i>J. Org. Chem.</i> 40(19):2743-8 (1975)				
EXAMINER		DATE CONSIDERED			

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Applicant: Arthur G. Taveras, et al.

Title: THIADIAZOLEDIOXIDES AND THIADIAZOLEOXIDES AS CXC- AND CC- CHEMOKINE RECEPTOR LIGANDS

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References (69)

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